

CURRICULUM VITAE

Ralf Ernst Rosenberger; MD, Priv.-Doz.



- 2018 **Founder of the MOVIA MED Center for Integrative Orthopaedic Surgery**
Innsbruck, Austria
- 2017 **Founder of the Sports Medicine Platform BODY PERFORMANCE AUSTRIA**
for medical specialists, researchers, physiotherapists, coaches and athletes
- 12/16 **Head and Founder of the KnieteamTirol**
Dept. of Trauma Surgery and Sports Medicine
Medical University Innsbruck, Austria
- 10/16 **Advisor of the Arthroplasty Registry Tirol, Austria**
- 01/14 **Vize-Head of the Kneeteam**
Dept. of Trauma Surgery and Sports Medicine
Medical University Innsbruck, Austria
- 2013 **Endogap Joint Replacement Clinic - Specialist training**
Garmisch-Partenkirchen Hospital, Germany
- 2011-16 **Commitee for Cartilage Repair Surgery - Official Member**
German Speaking Arthroscopy Association (AGA)
- 07/10 **Privatdozent** of Trauma Surgery
Dept. of Trauma Surgery and Sports Medicine
Medical University Innsbruck, Austria
- 02/08 **Specialist in Trauma Surgery and Sports Traumatology**
- 2007 **Head of Cartilage Repair, Prevention and Rehabilitation Research**
Dept. of Trauma Surgery and Sports Medicine
Medical University Innsbruck, Austria
Chairman: Prof. M. Blauth, MD

- 01/06 - 06/07 **Research fellow** at the Cartilage Repair Center, Dept. of Orthopedics
Harvard Medical School, Boston, MA, USA
 Head of CRC: Prof. T Minas, MD
 Chairman: Prof. TS Thornhill, MD
- 2002 - 12 **Head of the Trauma Tech Center**
 Dept. of Trauma Surgery and Sports Medicine
 Medical University Innsbruck, Austria
 Chairman: Prof. M. Blauth, MD
- 05/01 - 01/08 **Resident** at the Dept. of Trauma Surgery and Sports Medicine
Head of the Trauma Tech Center
Medical University Innsbruck, Austria
 Chairman: Prof. M. Blauth, MD
- 2001 **Intern at the Dept. of Orthopaedics**
Medical University Salzburg, Austria
 Chairman: Prof. U. Dorn, MD
- 2000 - 2001 **Intern at the Hospital of Trauma Surgery Salzburg**
 AUVA, Salzburg, Austria
 Chairman: Prof. A. Karlbauer, MD
- 2000 Graduation as "**Doktor der gesamten Heilkunde**" (**MD**) in June.
- 1999 - 2000 Research at the
 Dept. of Transfusion Medicine
 Medical University Innsbruck
 Chairman Doz. Schoenitzer, MD
 during my compulsory Civil Service at this institution included the following:
 dehydration-induced fluid shifts during sports activity, blood transfusion in trauma
 care patients.
- 1998 - 2000 **Doctoral thesis** on
 "Computer Assisted 3D Navigation with a Non-invasive Registration Method for
 Retrograde Drilling of Osteochondral Lesions of the Talus"
 at the Dept. of Trauma Surgery and Sports Medicine
 Medical University Innsbruck. Austria
 Chairman (1998 - 2000): Prof. K. Benedetto, MD
 Supervisors:
 Prof. R Bale, MD, Head of the Stereotactic Interventional Planning
 Laboratory (SIP-Lab) Dept. of Radiology I
 Medical University Innsbruck. Austria
 Chairman: Prof. W. Jaschke, MD
 Prof. C Fink, MD, Head of the Sports Medicine Unit
 Dept. of Trauma surgery and Sports Medicine
 Medical University Innsbruck. Austria
 Chairman: Prof. M. Blauth, MD
- 1993 – 1999 Research and Students Education at the
 Dept. of Anatomy, Histology and Embryology
 Medical University Innsbruck. Austria
 Chairman: Prof. W: Platzer, MD

PRIZES AND AWARDS

Certificate of Merit (Poster)

First experiences with computer assisted drilling of osteochondral lesions of the talus - feasibility and accuracy

Bale RJ, Fink C, Hoser C, Rosenberger R, Jaschke W, Benedetto KP

Radiology 213:535, RSNA, Chicago, USA, 1999

Award: Summa cum laude (Poster)

Computerunterstützte Anbohrung von osteochondralen Läsionen des Talus

Bale RJ, Fink C, Rosenberger R, Hoser C, W Hackl, M Rieger, Benedetto KP, Jaschke W

RÖFO 173:184, Wiesbaden, Germany, 2001

Best oral presentation

Minimal invasive computerassisted treatment of talar OCD

RE Rosenberger, C Fink, RJ Bale, M Rieger, KP Benedetto, C Hoser

5th European Trauma Congress, Vienna, Austria, 2002

Erster Vortragspreis

Inzidenz von kombinierten Gesichtsschädel- und HWS-Verletzungen

W Hackl, K Hausberger, R Rosenberger, R Gassner

ÖG für Mund-, Kiefer- und Gesichtschirurgie, Badgastein, Austria 2003

PUBLICATIONS TO DATE

Full Manuscripts

30. Eichinger M, Schocke M, Hoser C, Fink C, Mayr R, Rosenberger RE.

Changes in articular cartilage following arthroscopic partial meniscectomy

Knee Surg Sports Traumatol Arthrosc. 2016 May;24 (5):1440-7.

29. Salzmann GM, Niemeyer P, Vogt S, Kreuz P, Arnold M, Fritz J, Mujeeb A, Rosenberger R, Steinwachs M, Angele P.

Practical execution of defect preparation prior to surgical cartilage intervention: results from a representative meeting survey among experts

Springerplus. 2015 Nov 8;4:682.

28. Liebensteiner MC, Rochau H, Renz P, Smekal V, Rosenberger R, Birkfellner F, Haid C, Krismer M.

Brake response time returns to the pre-surgical level 6 weeks after unicompartmental knee arthroplasty.

Knee Surg Sports Traumatol Arthrosc 2014, May 15

27. Kühle J, Angele P, Balcarek P, Eichinger M, Feucht M, Haasper C, Alexander G, Jung T, Lill H, Marquass B, Osti M, Rosenberger R, Salzmann G, Steinwachs M, Voigt C, Vogt S, Zeichen J, Niemeyer P.

Treatment of osteochondral fractures of the knee: a meta-analysis of available scientific evidence.

Int Orthop 2013, Dec;37(12):2385-94

26. Mayr R, Troyer S, Kastenberger T, Krappinger D, Rosenberger R, Obwegeser A, El Attal R.

The impact of coagulopathy on the outcome of traumatic epidural hematoma.

Arch Orthop Trauma Surg. 2012 Oct;132(10):1445-50. Epub 2012 Jun 8.

25. Mayr R, Agraharam D, Smekal V, El Attal R. Mayr R, Rosenberger R, Agraharam D, Smekal V, El Attal R.

Revision anterior cruciate ligament reconstruction: an update

Arch Orthop Trauma Surg. 2012 Sep;132(9):1299-313.

24. Attal R, Hansen M, Kirjavainen M, Bail H, Hammer TO, Rosenberger R, Höntzsch D, Rommens PM.

A Multicentre case series of tibia fractures treated with the Expert Tibia Nail (ETN)

Arch Orthop Trauma Surg. 2012 Jul;132(7):975-84.

23. Quirbach S, Smekal V, Rosenberger RE, El Attal R, Schöttle PB.

Anatomical double-bundle reconstruction of the medial patellofemoral ligament with a gracilis

Oper Orthop Traumatol. 2012 Apr;24(2):131-9.

22. El Attal R, Hansen M, Rosenberger R, Smekal V, Rommens PM, Blauth M. Intramedullary nailing of the distal tibia illustrated with Expert™ tibia nail

Oper Orthop Traumatol. 2011 Dec;23(5):397-410.

21. Krappinger D, von Linde A, Rosenberger R, Glodny B, Blauth M, Niederwanger C.

Volumetric analysis of corticocancellous bones using CT data.

Skeletal Radiol. 2012 May;41(5):503-8.

20. Rosenberger RE, Gomoll AH, Bryant T, Minas T^[SEP]:

Repair of Large Chondral Defects of the Knee with Autologous Chondrocyte Implantation in Patients 45 Years and Older- Clinical follow-up at two to eleven years. ^[SEP]

Am J Sports Medicine 2008, Dec;36 (12):2336-44.

19. Minas T, Gomoll AH, Solhpour S, Rosenberger R, Probst C, Bryant T.

Autologous Chondrocyte Implantation for joint Preservation in Patients with Early Osteoarthritis.

Clin Orthop Relat Res. 2009 Aug 4

18. Minas T, Gomoll AH, Rosenberger R, Royce RO, Bryant T.

Increased failure rate of autologous chondrocyte implantation after previous treatment with marrow stimulation techniques.

Am J Sports Medicine 2009, May; 37(5):902-8.

17. Rosenberger RE, Bale RJ, Kneisl C, Krappinger D, Knoflach M, Attal R

2D - Fluoroscopic Navigation in Posterior Cruciate Ligament Reconstruction - a Preclinical Cadaver Study

Arch Orthop Trauma Surg. Arch Orthop Trauma Surg. 2010 Aug;130(8):971-6.

16. Rosenberger RE, Dolati B, Larndorfer R, Blauth M, Krappinger D, Bale RJ

Accuracy of minimally invasive navigated acetabular and iliosacral fracture stabilization using a targeting and noninvasive registration device.

Arch Orthop Trauma Surg. 2010 Feb;130(2):223-30.

15. Rosenberger RE, Hoser Ch, Quirbach S, Attal R, Tecklenburg K, Fink Ch

The immediate effect of navigation on implant accuracy in primary mini-invasive unicompartmental knee arthroplasty.

Knee Surg Sports Traumatol Arthrosc 2008, Dec;16(12):1133-40

14. Rosenberger RE, Hoser Ch, Quirbach S, Attal R, Hennerbichler A, Fink Ch
Improved Accuracy of Component Alignment with Implementation of Image-free Navigation in Total Knee Arthroplasty
Knee Surg Sports Traumatol Arthrosc. 2008, Mar;16(3):249-57
13. Bale RJ, Kovacs P, Dolati B, Hinterleithner C, Rosenberger R
Stereotactic CT-guided percutaneous stabilization of posterior pelvic ring fractures: a preclinical cadaver study.
J Vasc Interv Radiol. 2008 Jul; 19(7):1093-8.
12. Oberladstaetter J, Kamelger FS, Rosenberger R, Dallapozza Ch, Struve P, Luger T, Fink Ch, Attal R.
Planning of traumatological hospital resources for a major winter sporting event as illustrated by the Winter Universiad.
Arch Orthop Trauma Surg. 2009, Mar; 129(3)359-62.
11. Krappinger D, Larndorfer R, Struve P, Rosenberger R, Arora R, Blauth M
Minimally invasive transiliac plate osteosynthesis for type C injuries of the pelvic ring: a clinical and radiological follow up
J Orthop Trauma. 2007 Oct;21(9):595-602.
10. B Dolati, R Larndorfer, D. Krappinger, RE Rosenberger
Dorsal inserted Plating on the pelvis.
Oper Orthop Traumatol. 2007 Mar;19(1):16-31.
9. Rosenberger RE, Fink C, Bale RJ, El Attal R, Muhlbacher R, Hoser C
Computer-assisted minimally invasive treatment of osteochondrosis dissecans of the talus.
Oper Orthop Traumatol. 2006, Oct;18(4):300-16.
9. Reinhold M, Knop C, Lange U, Rosenberger R, Schmid R, Blauth M
Reduction of traumatic dislocations and facet fracture-dislocations in the lower cervical spine.
Unfallchirurg. 2006 Nov 16; 2006 Dec;109(12):1064-1072.
8. C Hoser, O Bichler, R Bale, R Rosenberger, M Rieger, P Kovacs, T Lang, Fink C
A computer assisted surgical technique for retrograde autologous osteochondral grafting in talar osteochondritis dissecans (OCD): a cadaveric study.
Knee Surg Sports Traumatol Arthrosc. 2004 Jan;12(1):65-71.
7. Ralf E Rosenberger, Christian Hoser, Christian Fink, Reto J Bale
CT-based Navigation of Osteochondral Talus Lesions
In: J.B. Stiehl, W. Konermann/R. Haaker.
Navigation and Robotics in Total Joint and Spine Surgery. Heidelberg, Springer Verlag 2003
6. Bale RJ, Vogele M, Lang T, Kovacs P, Rieger M, Freund M, Chemelli A, Rachbauer F, Hoser C, Fink C, Dolati B, Rosenberger R, Jaschke W
A novel vacuum immobilization device and a novel targeting device for computer assisted interventional procedures.
In: Lemke HU et al. (eds). **Computer Assisted Radiology and Surgery**, 2002; Elsevier, Amsterdam, New York.
5. Ralf E Rosenberger, Christian Hoser, Reto J Bale, Christian Fink
Computernavigierte Anbohrung der Osteochondralen Läsion am Talus (OLT) mit dem "Sofamor-Danek-System"
In: W. Konermann/R. Haaker.
Navigation und Robotic in der Gelenk- und Wirbelsäulen Chirurgie, 2002; Heidelberg, Springer Verlag.

4. Rosenberger RE, Bale RJ, Fink C, Rieger M, Reichkender M, Hackl W, Benedetto KP, Künzel KH, Hoser C
Computerunterstützte Zielbohrungen an der unteren Extremität
Unfallchirurg 2002, 105: 353-358.
3. Fink C, Rosenberger RE, Bale RJ, Rieger M, Hackl W, Benedetto KP, Künzel KH, Hoser C
Computerassistierte retrograde Bohrung osteochondraler Läsionen am Talus
Orthopäde 2001, 30:59-65.
2. RJ Bale, C Hoser, R Rosenberger, M Rieger, KP Benedetto, C Fink Initial experiences with computer assisted retrograde drilling of osteochondral lesions of the talus - feasibility and accuracy
Radiology. 2001, 218:278-282.
1. Bale RJ, Fink C, Rosenberger R, Hackl W, Hoser C, Rieger M, Jaschke W, Benedetto KP First experiences with computer assisted drilling of osteochondral lesions of the talus – feasibility and accuracy.
In: Lemke HU et al. (eds). **Computer Assisted Radiology and Surgery**, 1999; Elsevier, Amsterdam, New York, 762-766.

VII. additional Publications

1. Rosenberger RE, Fink C, Bale RJ, Kovacs P, Bichler O, Hoser C
Osteochondrosis dissecans am Talus - Minimal-invasive Behandlung
Chirurgie 2003, 2:28-30.
2. Irenberger A, Rosenberger RE, Fink C
Achillessehnenruptur.
Chirurgie 2003, 2:32-34.
3. Rosenberger RE
Therapie der Osteochondrosis Dissecans tali
JATROS 2009, 1:22-24.
4. Rosenberger RE
Behandlung des schweren Knorpleschadens
JATROS 2010, 1:34-38.

RESEARCH ACTIVITIES

- 2017 **Founder of the Sports Medicine Platform Body Performance**
for medical specialists, researchers, physiotherapists, coaches and athletes
- 2007 **Head of Cartilage Repair, Prevention and Rehabilitation Research**
Dept. of Trauma Surgery and Sports Medicine
Medical University Innsbruck, Austria
- 2002 - 12 **Head of the Trauma Tech Center**
Dept. of Trauma Surgery and Sports Medicine
Medical University Innsbruck, Austria

Chairman: Prof. M. Blauth, MD

Cartilage repair surgery program

- Osteochondral auto-grafting
- Autologous chondrocyte implantation
- Matrix associated autologous chondrocyte implantation
- Isolated focal joint resurfacing surgery
- dGEMRIC

Computer assisted surgery program

- Minimally invasive computer assisted drilling of talar OCD
- Minimally invasive computer assisted IS joint and acetabular fracture stabilisation
- Minimally invasive computer assisted knee arthroplasty
- Robotics

Arthroscopic assisted surgery program

- Minimally invasive computer/arthroscopic assisted retrograde spongiosaplasty in talar OCD
- Detection of metabolic and morphological changes after meniscus resection

Orthopedic implant program

- Minimally Invasive Fixation of dorsal Pelvic ring Fractures- inserted dorsal plating.
- Minimally invasive arthroplasty
- Custom made implants in knee arthroplasty

Doctoral and Diploma Thesis Mentoring

OD		M.R.
Cartilage	S.Q.	
Meniscus	E.H.	
Cartilage	E.M.	
Moon		M.S.
	C.K.	
Posterolat	F.W.	
	B.K.	
Patella FX		
Patella FX		
TK FX		
Knie Lux		
	D.B.	
	G.T.	

Memberships

Austrian Society for Trauma Surgery

European Trauma Society

German Speaking Arthroscopy Association (AGA)

International Society for Computer Assisted Orthopaedic Surgery (canc.)

International Cartilage Repair Society (canc.)